Title: COMPOSITIONS, KITS AND METHODS FOR PROGNOSTICATION, DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED DISORDERS AND OTHER DISORDERS

DISORDERS AND OTHER DISORDERS Attorney/Agent: Kerri Pollard Schray Docket No.: MP199-130P1RCN1M

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	Υ,
RDQAREQDRAHACPAVEETPMNVRNVPLPGDAAAGHPDRASGHPKPHSRSSSAYRKSASTHHKSVFSHSK RDQVREQERARACVAVEGTPRNVRNVLLPGDASAPHSDRASVRPKPQTRSTSVYRK	$\Xi \Sigma$
NWLYLAAYFIAYFNSCLNAVIYGLLNENFRREYWTIFHAMRHPIIFFPGLISDIREMQEARTLARARAHA NWLYLAAYCIAYFNSCLNAIIYGILNESFRREYWTIFHAMRHPILFISHLISDIRETWETRALTRARVRA 	田冈民
IVGECYVRIWTKVLAARDPAGONPDNOLAEVRNFLTMFVIFLLFAVCWCPINVLTVLVAVSPKEMAGKIP IVGYCYTKIWIKVLAARDPAGONPDNOFAEVRNFLTMFVIFLLFAVCWCPVNVLTVLVAVIPKEMAGKIP IVGYCYTKIWIKVLADRDPAGONPDNOFAEVRNFLTMFVIFLL	$\Xi \boxtimes \kappa$
SLOYERIFSVRNTCIYLVITWIMTVLAVLPNMYIGTIEYDPRTYTCIFNYLNNPVFTVTIVCIHFVLPLL SLOYKRIFSLRNTCIYLVVTWVMTVLAVLPNMYIGTIEYDPRTYTCIFNYVNNPAFTVTIVCIHFVLPLI SLOYNADLOPANTCIYLVVTWVMTVLDVLPNVYIGTIEYDPRTYTCYFNYVNNPAFTVTIVCIHFVLPLI	日四氏
GNIFVVSLSVADMLVAIYPYPLMLHAMSIGGWDLSQLQCQMVGFITGLSVVGSIFNIVAIAINRYCYICH GNIFVASLSVADMLVAIYPYPLMLYAMSVGGWDLSQLQCQMVGLVTGLSVVGSIFNITAIAINRYCYICH YCYICH	田阿瓦
MGPTLAVPTPYGCIGCKLPQPEYPPALIIFMFCAMVITIVVDLIGNSMVILAVTKNKKLRNS MATVPKSNMGPTKAVPTPFGCIGCKLPKPDYPPALIIFMFCAMVITVVVDLIGNSMVILAVTKNKKLRNS 	日冈民

Fig. 1A

Title: COMPOSITIONS, KITS AND METHODS FOR PROGNOSTICATION, DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED

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AASGHLKPVSGHSKPASGHPKSA-TVYPKPASVHFKGDSVHFKGDSVHFKPDSVHFKPASSNPKPITGHH PASIHHKSISGHPKSASVYPKPASSVHCKPASVHFKPASVHFKGDSVYFKGDTVHYRAAS---KLVTSHR VSAGSHSKSAFSAATSHPKP----IKPATSHAEPTTADYPKPATTSHPKPAAADNPELSASHCPEIPAIA ISAG------PSTSHPTSMAGYIKSGTSHPATTTVDYLEPATTSHSVLTAVDLPEVSASHCLEMTSTG HPVSDDSDLPESASSPAAGPTKPAASQLESDTIADLPDPTVVTTSTNDYHDVVVVD----VEDDPDEMAV HLRAD----ISASVLPSVPFELAATP-----PDTTAIPIASGDYRKVVLIDDDSDDSDCSDEMAV 1 田田民 田冈民 田冈区

TGTTTGCTGTCTGGACCTGGCTGCTGATCCTGAGCCTGGTGGGAGATCTTAACGATCCCCAGGAGCAACATGGGGGCCCACCTAG  Title: COMPOSITIONS, KITS AND METHODS FOR PROGNOSTICATION, DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED

DISORDERS AND OTHER DISORDERS Attorney/Agent: Kerri Pollard Schray

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TGCATTGGCTGTAAGCTGCCAAAGCCCGGACTACCCGCCAGCTCTAATCATCTTCATGTTCTGCGCAATGGTCATCACAGTCGTCG TAGACCTGATCGGGAACTCCATGGTCATTTTGGCTGTGACCAAGAACAAGAAGCTCCGAAATTCTGGCAACATCTTTGTGGCCAG CCTCTCTGTGGCAGACATGCTGGTGGCCATCTACCCCTACCCTTTGATGCTGTATGCCATGTCAGTTGGGGGGCTGGGATCTGAGT CAGCTCCAGTGCCAGATGGTCGGGTTGGTCACAGGACTGAGCGTAGTCGGTTCCATCTTCAACATTACTGCCATTGCCATCAACC CATGACTGTCCTGGCTGTCCTGCCTAACATGTACATTGGCACCATTGAGTATGACCCTCGCACCTACACCTGCATCTTCAACTAT STGAACAATCCTGCCTTTACCGTGACCATTGTCTGCATCCACTTCGTCCTCCTCTCTTCATCATAGTTGGTTATTGCTACACGAAAA

<u> AAGATCCTGAGCTTGCCTGGGAGGAATGGCCCACGGTCCCCAAGAGCAACATGGGACCTACAAAGGCGGTTCCCACCCCATTCGGC</u>

Title: COMPOSITIONS, KITS AND METHODS FOR PROGNOSTICATION. DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED

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4/19 TCTGGATCAAAGTGCTGGCAGCCCGTGACCCAGCTGGACAGAATCCTGACAACCAGTTTGCTGAGGTTCGAAATTTTCTAACCAT GTTTGTGATCTTCCTCCTTTTTGCAGTTGCTGGTGCCCTGTCAATGTGCTCACTGTGTGGTGGTGGCTGTCATTCCAAAGGAAATGG GATATICGGGAGACTIGGGAGACCCGAGCICICACICGIGCCCGIGTCCGIGCCCGIGAICAAGICCGAGAGAAGAGCGIGCIC CAGGCAAGATCCCCAACTGGCTTTATCTTGCAGCCTACTGCATAGCCTACTTCAACAGCTGCCTCAACGCCATCATCTACGGTAT GTGCCTGTGTCGCTGTGGAGGGGACCCCAAGGAACGTCCGGAATGTTCTACTGCCTGGTGATGCATCAGCACCCCACTCTGATCG TGCCTCTGTCCGTCCCAAGCCCCAAACCAGGTCTACTTCTGTCTACCGCAAACCTGCCTCTATCCACCACAAGTCTATTTCTGGC TGACCAGCACTGGCCACCTCAGAGCTGACATTTCTGCCTCTGTCCTTCTGTACCCTTCGAGCTTGCTGCCACCCTCCTGA TACCACTGCAATCCCCATTGCCTCTGGTGATTACCGCAAGGTCGTGCTTATTGATGATGATTCTGATGATTCTGATTGCTCTGAT TTCATTTCAAGGGTGACTCTGTCTATTTCAAGGGAGACACTGTCCATTACAGGGCTGCTTCCAAACTTGTCACCAGTCACGGTAT SACTATCTCGAACCTGCCACCACCAGCCACTCTGTGCTCACTGCTGTCGACCTCCCTGAGGTCTCAGCCTCCCATTGCCTTGAGA SAGATGGCTGTGTG

Fig. 21

Title: COMPOSITIONS, KITS AND METHODS FOR PROGNOSTICATION, DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED

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**TTGTGATCTTCCTCCTT** 

TGACTGTTCTGGATGTCCTGCCTAATGTGTACATTGGCACCATTGAGTATGACCCTCGCACCTACACCTGCTACTTCAACTATGT GAACAACCCTGCCTTTACTGTGACCATTGTCTGCATCCACTTCGTCCTCCTCTCATCATAGTCGGTTATTGCTACACAAAAATC TGGATCAAAGTGCTGGCAGACCGGGACCCAGCTGGACAGAATCCTGACAACCAGTTTGCTGAGGTTCGAAATTTTCTAACCATGT

Applicants: David White

Title: COMPOSITIONS, KITS AND METHODS FOR PROGNOSTICATION, DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED DISORDERS AND OTHER DISORDERS

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FIG. 3

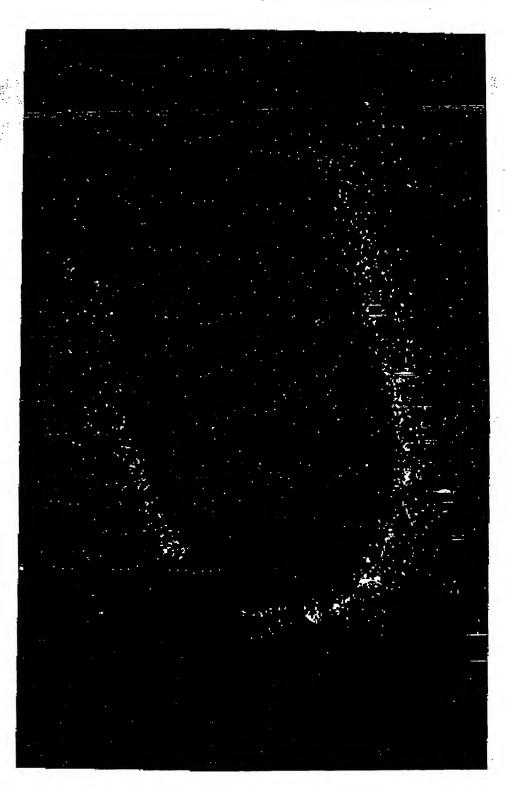
Applicants: David White

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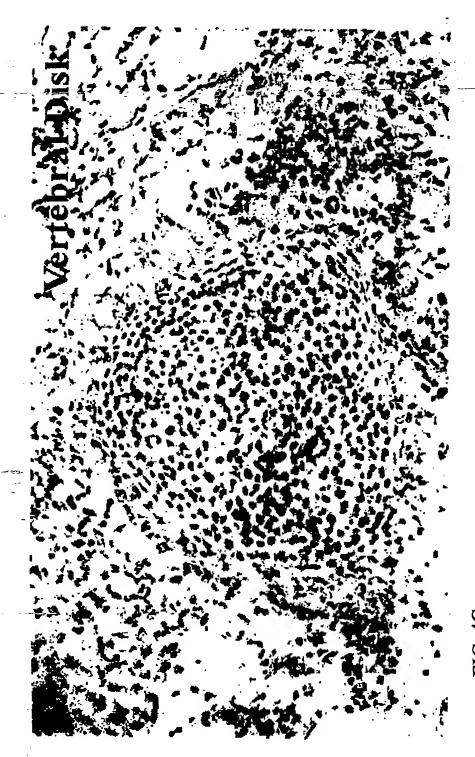


Applicants: David White

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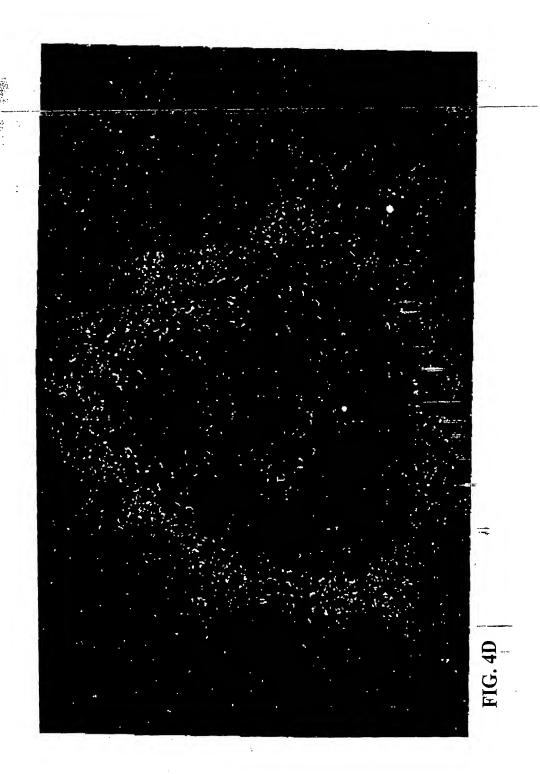
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AF003625	27599	tgtttgctgtctggacctggctgctgatcctgagcctgctgggagatcttaacgatcccc
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AF003625	27659	aggagcaacatggggcccaccctagcggttcccaccccctatggctgtattggctgtaag
U52219 MRR AA	1 61	aggagcaacatggggcccaccctagcggt $\psi$ cccacccctatggctgtattggctgtaag
AF003625	27719	ctaccccagccagaatacccaccggctctaatcatctttatgttctgcgcgatggttacc
U52219	121	scagocagaatacccaccggctctaatcatctttatgttctgcgcgatggttat
MRR AA	18	P Q P E Y P P A L I I F M F C A M V
•		
AF003625	27779	accatcgttgtagacctaatcggcaactccatggtcattttggctgtgacgaagaacaag
U52219 MRR AA	181 38	accatcgttgtagacctaatcggcaactccatggtcattttggctgtgacgaagaacaag

aagctccggaattctgg K L R N S G

U52219 MRR AA

27839

AF003625

Title: COMPOSITIONS, KITS AND METHODS FOR PROGNOSTICATION. DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED DISORDERS AND OTHER DISORDERS

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AF003625	30712	ttcaggcaacatcttcgtggtcagtctctctgtggccgatatgctggtggccatctaccc
U52219 MRR AA	252 62	ttctggcaacatcttcgtggtcagtctctgtgggccgatatgctggtggccatctaccc S G N I F V V S L S V A D M L V A I Y P
	ŧ	
AF003625	30772	ataccetttgatgetgeatgecatgtecattgggggetggggatetgagceagttacagtg
U52219 MRR AA	312 82	ataccctttgatgctgcatgccattgggggctgggatctgagccagttacagtg Y P L M L H A M S I G G W D L S Q L Q C
AF003625	30832	
U52219 MRR AA	372 102	ccagatggtcgggttcatcacagggctgagtggtcggtcg

Fig. 5B

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AF003625	30892	aatcgctatcaaccgttactgctacatctgccacagcctccagtacgaacggatcttcag
U52219	432	aatcgctatcaaccgttactgctacatctgccacagcctccagtacgaacggatcttcag
MRR AA	122	IAINRYCYICHSLQYERIFS
AF003625	30952	tgtgcgcaatacctgcatctacctggtcatcacctggatcatgaccgtcctggctgtcct
U52219	492	tgtgcgcaatacctgcatctacctggtcatcacctggatcatgaccgtcctggctgtcct
MRR AA	4	м Z
AF003625	31012	gcccaacatgtacattggcaccatcgagtacgaïcctcgcacctacacctgcatcttcaa
U52219	552	gcccaacatgtacattgycaccatcgagtacgatcctcgcacctacacctgcatcttcaa
MRR AA	9	PNMYIGTIEYDPRTYTCIFN
AF003625	31072	ctatctgaacaacctgtcttcactgttaccatcgtctgcatccacttcgtcctcctct
U52219	612	gaacaaccctgtcttcactgttaccatcgtctgcatccactt
MRR AA	182	Y L N N P V F T V T I V C I H F V L P L

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AF003625	31132	cctcatcgtgggtttctgctacgtgaggatctggaccaaagtgctggcggcccgtgaccc
U52219 MRR AA	672 202	tcatcgtgggtttctgctacgtgaggatctggaccaaagtgctggcggcccgtgacc ${ m L}$
AF003625	31192	tgcagggcagaatcctgacaaccaacttgctgaggttcgcaattttctaaccatgtttgt
U52219	32	tgcagggcagaatcctgacaaccaacttgctgaggttcgcaattttctaaccatgtttgt
MRR AA	222	O A O
AF003625	31252	gatetteeteetetttgeagtgtgetggtgecetateaaegtgeteaetgtettggtgge
U52219	92	stteeteetetttgeagtgtgetggtgeeetateaaegtgeteaetgtettggtgg
MRR AA	242	IFLLFAVCWCPINVLTVLAA
AF003625	31312	tgtcagtccgaaggagatggcaggcaagatccccaactggctttatcttgcagcctactt
U52219 MRR AA	852 262	tgtcagtccgaaggagatggcaggcagcctactt $V$ S P K E M A G K I P N W L Y L A A Y F

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Applicants: David White

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AF003625	31372	catagcctacttcaacagctgcctcaacgctgtgatctacgggctcctcaatgagaattt
U52219	912	oatagcctacttcaacagctgcctcaacgctgtgatctacgggctcctcaatgagaattt
MRR AA		I A Y F N S C L N A V I Y G L L N E N F
AF003625	31432	ccgaagagaatactggaccatcttccatgctatgcggcaccctatcatattcttctctgg
U52219	972	gagaatactggaccatcttccatgctatgcggcaccctatcatattcttccctg
MRR AA	302	R E Y W T I F H A M R H P I I F F P
AF003625	31492	cctcatcagtgatattcgtgagatgcaggaggcccgtaccctggcccgcgcccgtgccca
U52219	Δi	cctcatcagtgatattcgtgagatgcaggaggcccgtaccctggcccgcgcccgtgccca
MRR AA	322	LISDIREMQEARTLARARAH
AF003625	31552	tgctcgcgaccaagctcytgaacaagaccgtgcccatgcctgtcctgctgtggaggaaac
U52219	< ✓	tgetegegaccaagetegtgaacaagacegtgeecatgeetgteetgt
MRR AA	342	ARDOAREODRAHACPAVEET

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AF003625 U52219 MRR AA	31612 1152 362	cccgatgaatgtccggaatgttccattacctggtgatgctgcagctggccaccccgaccg
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U52219 MRR AA	1212 382	tgcctctggccaccctaagccccattccagatcctcctctgcctatcgcaaatctgcctc A S G H P K P H S R S S A Y R K S A S
AF003625	31732	tacccaccacaagtctgtctttagccactccaaggctgcctctggtcacctcaagcctgt
U52219 MRR AA	1272 402	tacccaccacaagtctgtctttagccactccaaggctgcctctggtcacctcaagcctgt THHKSVFO
AF003625	31792	ctctggccactccaagcctgcctctggtcaccccaagtctgccactgtctaccctaagcc
U52219 MRR AA	1332	ctctggccactccaagcctgcctctggtcaccccaagtctgccactgtctaccctaagcc S G H S K P A S G H P K S A T V Y P K P

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U52219	1392	stgtccatttcaagggtgactctgtccatttcaagggtgactctgtccatttcaa
MRR AA	442	азун т к б озун т к б озун т к
AF003625	31912	gcctgactctgttcatttcaagcctgcttccagcaaccccaagcccatcactggccacca
U52219	1452	gcctgactctgttcatttcaagcctgcttccagcaaccccaagcccatcactggccacca
MRR AA	9	P D S V H F K P A S S N P K P I T G H H
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MRR AA		GSHSKSPFSP
AF003625	32044	catcaagccagctaccagccatgctgagcccaccactgctgactatcccaagcctgccac
U52219	1572	catcaagcaagctaccagccatgctgagcccaccactgctgactatcccaagcctgccac
MRR AA	502	IKPATSHAEPTTADYPKPAT

Fig. 5G

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agccaccctaagcccactgctgacaaccctgagctctctgcctcccattgccc	α Ω Ω Ω Ω	cgagatccctgccattgcccaccctgtgtctgacgacagtgacctccctgagtcggcctc	- 1 N L	* 0	tagccctgccgctgggcccaccaagcctgctgccagccag	tgccgctgggcccaccaagcctgctgccagccagctggagtctgacaccatcg	P A G P T K P A A	tgaccttcctgaccctactgtagtcactaccagtaccaatgattaccatgatgtcgtggt	tgaccttcctgaccctactgtagtcactaccagtaccaatgattaccatgatgtcgtggt	D L P D P T V V T T S T N D Y H D V V
N A	522	32164	1692	<b>4</b> 1	32224	1752	562	32284	812	582
AF003625	OSZIS MRR AA	AF003625	U52219	MKK AA	AF003625	052219	MRR AA	AF003625	U52219	MRR AA

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AF003625 U52219 MRR AA	AF003625 U52219